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Hydraulic two circuit steering system with each circuit having control unit, steering motor and common steering organ with common steering rod
Patent Assignee: DANFOSS AS (DANA); SAUER DANFOSS HOLDING AS (DANA);
DANFOSS FLUID POWER AS (DANA)

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Number of Countries: 002 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 19844331	A1	20000406	DE 1044331	A	19980928	200028 B
SE 9903001	A	20000329	SE 993001	A	19990825	200029
DE 19844331	C2	20030925	DE 1044331	A	19980928	200365

Priority Applications (No Type Date): DE 1044331 A 19980928

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
DE 19844331	A1		6	B62D-005/32	
SE 9903001	A			B62D-005/32	
DE 19844331	C2			B62D-005/32	

Abstract (Basic): DE 19844331 A1

NOVELTY - The hydraulic two circuit steering system includes a changeover valve (21) for alternate connection of the two circuits, so that one circuit is effective and the other ineffective. A changeover signal transmitter (23) which effects the changeover of the changeover valve (21), not only with a fault in the working circuit, but also depending of at least one fault independent parameter. The control units (3,11) of both circuits (1,2) have a different design.

USE - Vehicle steering system.

ADVANTAGE - Provides improved steering comfort and/or steering reliability using two circuit steering system.

DESCRIPTION OF DRAWING(S) - The figure shows a two circuit steering system.

Circuits (1,2)
Control units (3,11)
Regulatable pump (4)
Motor leads (6,7)
Steering motor (8)
Common steering organ (19)
Changeover valve (21)
Changeover signal transmitter (23)
pp; 6 DwgNo 1/3

Title Terms: HYDRAULIC; TWO; CIRCUIT; STEER; SYSTEM; CIRCUIT; CONTROL; UNIT ; STEER; MOTOR; COMMON; STEER; ORGAN; COMMON; STEER; ROD

Derwent Class: Q22; T06; X22

International Patent Class (Main): B62D-005/32

International Patent Class (Additional): B62D-005/093; B62D-006/00

File Segment: EPI; EngPI

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